

11                   operator and the control means,  
12                   characterized in that:  
13                 - the control means comprise firstly a control box  
14                   (20) impermeable to radiation and comprising  
15                   electronic circuit boards, and secondly a power  
16                   supply box (1) impermeable to radiation and  
17                   comprising at least one energy supply source, and  
18                 - management means (42) comprise a communication  
19                   device to transmit orders to onboard control means  
20                   and to receive data about the state of the said  
21                   control means and the state of remote manipulation  
22                   and carrying equipment (41, 43).

1                 12. (new) Control system according to claim 11,  
2                   characterized in that the power supply box (1) comprises two  
3                   power supply sources operating redundantly.

1                 13. (new) Control system according to claim 11,  
2                   characterized in that the electronic circuit boards comprise  
3                   several microprocessors operating alternately and processing  
4                   circuits providing functional control over this  
5                   microprocessor.

1                 14. (new) Control system according to claim 11,  
2                   characterized in that it is self-configurable to match the  
3                   manipulation equipment (41) and the carrying equipment (43).

1           15. (new) System according to claim 11, characterized in  
2        that the control means (42) comprise circuits for processing  
3        status data received from the control means to diagnose  
4        failures and operating errors of the equipment (41, 43) and  
5        the control means.

1           16. (new) System according to claim 11, characterized in  
2        that the control means are each provided with a base (19, 30),  
3        larger than the power supply box (1) and the control box (20),  
4        fixed permanently on each equipment to be controlled and each  
5        being provided with:

- 6           -     means of attachment to a control box (20) or a power  
7              supply box (1) onto the base;
- 8           -     internal connection means to make electrical and/or  
9              electronic connections between the box and the base  
10             on which it is fixed; and
- 11           -     external connection means for making external  
12              electrical and/or electronic connections between the  
13             equipment (41, 43) to be controlled and the base  
14             (30).

1           17. (new) System according to claim 16, characterized in  
2        that the power supply boxes (1) and the control boxes (20) are  
3        provided with locking means (10, 12, 21, 23) on their  
4        corresponding bases (19, 30, 44), that can be manoeuvred from  
5        outside these power supply boxes (1) and control boxes (20).

1           18. (new) System according to claim 16, characterized in  
2       that a lead base plate (31) is placed under the base (30) of  
3       each control box (20).

1           19. (new) System according to claim 16, characterized in  
2       that the power supply boxes (1) and the control boxes (20)  
3       each comprise a stainless steel housing closed by a Plexiglas  
4       cover (6, 27).

1           20. (new) System according to claim 19, characterized in  
2       that it comprises gaskets (8, 26) to be used for assembly of  
3       the Plexiglas covers (6, 27).

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